



UNIVERSITAS GADJAH MADA

Faculty of Mathematics and Natural Sciences

Mathematics Department

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Undergraduate Programme in Mathematics

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MODULE HANDBOOK

Module name	Programming II Laboratory
Module level, if applicable	Bachelor
Code, if applicable	MII-1212
Subtitle, if applicable	-
Courses, if applicable	Programming II Laboratory
Semester(s) in which the module is taught	1 st (first)
Person responsible for the module	Guntur Budi Herwanto, M.Cs.
Lecturers	Guntur Budi Herwanto, M.Cs.
Language	Bahasa Indonesia
Relation to curriculum	Elective course in the first year (2 nd semester) Bachelor Degree
Type of teaching, contact hours	Undergraduate degree program: lectures, < 30 students
Workload	1. Lectures: 1 x 100 = 100 minutes (1.5 hours) per week. 2. Exercises and Assignments: 2 x 60 = 120 minutes (2 hours) per week. 3. Private study: 2 x 60 = 120 minutes (2 hours) per week.
Credit points	1
Requirements according to the examination regulations	A student must have attended at least 75% of the lectures to sit in the exams.
Recommended prerequisites	Programming II
Module objectives/intended learning outcomes	Midterms examination and Final examination. CO 1. having knowledge about the theory and implementation of the basic concepts of algorithms and data structures; CO 2. can implement the basic theories and concepts of Object Oriented Programming (OOP); CO 3. can build a computer program based on OOP; CO 4. can implement linear data structures such as linked lists, stacks and queues; CO 5. can implement advanced sorting algorithms in computer programs; can implement non-linear data structures such as matrices, multiple linked list and tree as well as a graph.
Content	Programming Lab I is a compulsory course given to students of the first semester at Department of Computer Science FMIPA UGM. This course provides the knowledge students so that they are able to recognize the definition of programming, translating an algorithm mapping basic concept into algorithmic language, and able to solve its using computer programming.
Study and examination requirements and forms of examination	Final examination
Media employed	LCD, whiteboard, websites, handouts
Reading List	